

WO 01/18047

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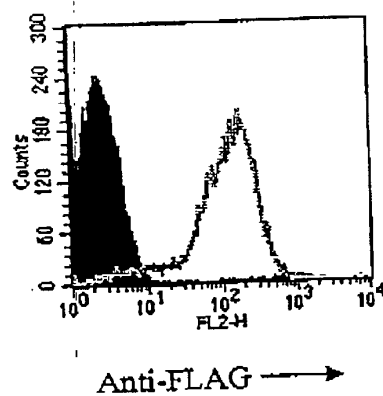


Figure 1

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10 30 50 70 90
ACCACCTGCTTCATTTGCTGTGAGAAATTTCCAGGCTCAGTGAAGAAGTAAAAATTCATCATCTCTGAAGAACTCTTACCGCCGCTGTGA
110 130 150 170
18
1 AGAAATTTCCAGAAATTTGATGGGAGGAACTAGAGATATGGGAGCAGGTGCCCTCTGCATGCGCTCAGTCTCTGGAAATGCTGTATTATCTG
190 210 230 250 270
19 S I L Q M M N I S A S C P Q C N E N A S C F N S T H C V C K 48
GTCAATATTACAAATGATGATATTTTCAGCTCTCTGTGCCAGTGGCAATGAATATGCCAGCTGCTTCAACAGCCACCTGTGTGTGTA
290 310 330 350 78
49 E G F W T G S E N R R I I E P H E K C Q D I N E C L L K E L
370 390 410 430 450
AGAGGATTTCTGGACGGGCTCTGAGAAATAGAGAAATTTAGCCCCCATAGAAATGTCAGATATTAATGACTGTCTACTGAAGAAT
470 490 510 530 108
79 V C K D V S Y C R N K I G T Y I C S C V V K Y P L F N W V A
GGTATGCAAGGATGCTGCTACTGCAGAAATAAAAATTTGGACCTTACATATGCGAGCTGTGTAGTAAATATTCCTTTGTTCAACTGGGTAGC
510 530
109 G I I N I D H P D C Y V N K S K N T G S K T H T L G V L S E 138
TGCCATTAATAATTTGATCACCTGATTTGTTATGTGAACAGAGCCAGAAATACAGATCAAAACACATACTTTGGAGTAGTACTGATGA
550 570 590 610 630
139 F K S K E E V A K G A T K L L R K V E H H I L N E N S D I P 168
ATTTAAATCCAAAGGAGGATTTGCAAAAGGAGCTACCAAGTTACTTCGCAAGTGGACATCATCTTTGATGAATGAATCACTCAGATATAGC
650 670 690 710
169 K X D E N P L L D I V Y E T K R C K T M T L L E A G N N T M 198
AAAAAGGATGAATTCCTTTATTGGATATAGTATGTAATGAATAGAGGTGCAAGACGATGACTCTTTCTAGAGAGCTGGCACACACCAAT
730 750 770 790 810
199 K V D C T S G F K E H N S G G E T A V A F I A Y K S L G N L 228
GAAGTTGACTGCACTAGTGTGTTTCAAGAGACACAACAGTGGAGGTGAACTGCACTGGCTTTTCATTTGCATATTAAGTCTCTTTGGGATCT
830 850 870 890
229 L N G S F F S N E E G F Q E V T L N S H I V S G A I R S E V 258
TCTAAATGGTTCCTTTTATTAGTAATGAAGAGGGTTTTCAGGAAGTGCACCTCACTCACTCATCTGTTAGTGGAGCATTGCGTTCAGAGGT

Figure 2

100709502 100709501
107070982

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910 930 950 970 990 288
259 K P V L S E P V L L T L Q N I Q P I D S R A E H L C V H W E
CAAACCTGCTCTCTGACCTGACTTACAAATATTCAGCCCATGACTCAAGACGACATCTCTGTGTCCATTGGGA 1070
1010
289 G S E G G S W S T K G C S H V Y T N N S Y T I C K C F H L 318
AGGATCAGAGGAGGGGAGCTGCTACCAAGAGTCTCTCAGGTGTACACCAATANTCTACACCATTTGCAAGTGTTCACCT 1170
1110
319 S S F A V L M A L P H E E D G V L S A L S V I T Y V G L S L 348
GTCCAGCTTTGCTGCTCATGGCTCTACCCCATGAGGAGGTGGTGTCTTCTGCTCTCTGTGATCACCTATGTGGGACTGAGTCT 1250
1190
349 S L C L F L A A I T F L L C R P I Q N T S T T L H L Q L S 378
TTCTCTGTGGCTATTTCTGGGGCCATCACTTTCTCTGTCGGACCATTCAGATACCCAGACGACATCCACCTGCAGCTCTC 1350
1270
379 I C L F L A D L F L T G I N R T K P K V L C S I I A G M L 409
CATCTGCCCTTTCTGGCTGACCTCTCTCCCTCAGAGCATCAACAGACTAAGCTAAGGTGCTGTGCTCCATCAAGCGGGGATTT 1430
1370
409 H Y L Y L A S F M W M F L E G L H L F L T V S N L K V A N Y 438
GCACTACCTCTACTTGGCTTCTCTCATGGGATGTTCTCGAGGGCTACATCTTTTCTCAGTGTAGCAATCTCAAGTGGCCACTTA 1530
1450
439 S N S G R F K K R F M Y P V G Y G L P A F I V A V S A I A G 468
CAGCACTCAGGCAGATTCAAGAGAGGTTCATGTATCTGTAGGATATGGGCTTCTGCTTTTATTTGTTGTTATCTGCAATAGCTGG 1610
1550
469 H K N Y G T H N H C W L S L H R G F I W S F L G P A A I I 498
CCACAGAAATATGGAACACACACACCACTGCTGGCTCAGCCCTTCATGAGGATTCATCTGGAGCTTCTTGGGGCCAGCGGACCATTTAT 1710
1630
499 L I N L V F Y F L I I W I L R S K L S S L N K E V S T L Q D 528
CTTGATTAACCTGGTGTCTACTTCTATATATATGGATTTTGAAGACAAACTTTCTTCTCTCATTAAGAGCTTTCTACACTTCAGA 1790
1730
529 T K V M T F K A I V O L F V L G C S W G I G L F I F I E V G 558
CACAAAGCTTATGACATTTAAAGCCATGCTCCAGTATTTGCTTGGGATGTTCTTGGGCAATGGCTTTGTTATTTTCTATTGAAGTTGG

Figure 2 (continued)

1810 1830 1850 1870 1890
559 K T V R L I V A Y L F T I I N V L Q G V L I F M V H C L L N 588
GAAGACGTGACACTGATCGTTCCTATCTCTTACCACATCAATGCTCGCAGGGGTGTTTGATATTTATGTTGGTACATGCTGCTTAA 1970
1910
589 R Q V R M E Y K K W F H R L R K E V E S E S T E V S H S T T 618
TCGCCAGGTGGGATGGAATATAAGRAGTGGTTTCATPAGACTGCCGAAGGAGTGAAGTGAAGCRACTGAAGTGTCTCATCTACTAC 2070
1990 2010 2030 2050
619 H T K M G L S L N L E N F C P T G N L H D P S D S I L P S T 648
TCACACAAAATGGGTCTTCTCTGAACCTGGAAAATTTCTGCCACAGGAACCTCCATGATCCTTCTGACTCCATCCTTCCAGTAC 2150
2090 2110 2130
649 E V A G V Y L S T P R S H M G A E D V N S G T H A Y W S R T 678
TGAAGTAGCAGGTGTATATCTAAGCACACCCAGGCTCTCACATGGGTGCTGAGGATGTGAACCTCAGGTACTCAGCTTACTGGAGCAGAAC 2250
2170 2190 2210 2230
679 I S D * 2270 2290 2310 2330
TATTAGTCAATTGAACTCAGTCTCTTCCCCAAGCCCTTACAGTACATTTTACTGTGACTGTGCCATGCACATGAAGCTATPAAATGCTAG 2380
2350 2370 2390 2410 2430
TCTGGTAAACAACTGTTGCATATTCATGATCATTTTATCTCTACTTGCAPAGTTAGCTTCTCTTTTATATCATTTTATTTCT 2480
2450 2470 2490 2510
TCTTTCTTTGTTATATATAGCTTCAGTTGAGTGGTTCTAGTCTTAATGCTCPAGATCACATACTTTCTTTTTCAGTTTAAACCTTTATATG 2560
2530 2550 2570 2590 2610
GTATTATGTTCTCTGTAGTGTATACCACTGGAAATATTTTATTTCTTTAAATTTGAGGTTAAATATAGTTACATCATTTTCTCTTTT 2660
2630 2650 2670 2690
TTCTTTCCACAACTCCTGTATAGCTTTTCCCTGGTGTCTATTTTATTTGTTCTACATGCATATATATTTTATGCAAAACATATATAT 2740
2710 2730 2750 2770 2790
GTATAATATAATATATATTTCTTTATATGATGAAAACCATCTACTTCAACCAATATATGTTCTCTATGATGTTTTCAGACAGGGA 2840
2810 2830 2850 2870 2890
CAACATAGCTATGGTAGCATGGCAGGGGAAAGCCACAGGACCTCAGCCTTATACAAAGAACTCAGAGGCCAACTGAGGAGTGTGCTGATG 2930
2910 2930 2950 2970 2990
AAGGAATGTCTTACCCAGGGGACCAATTAATTTGGTTATCTANTACAAATGTTCAGCCCCAAAACCTGTTAAGATAAAGCCTATAT 3020

Figure 2 (continued)

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2890 2910 2930 2950 2970
GCATCTTAGGAAGTATCTACCTTGATACACCTTTATTGGAAATATCATCCACATGTTTATTTGCTGTTCTGAAGAGGCTCTGTTGATTTTC
2990 3010 3030 3050
TAAGGGTTGATCAGTTTAAATTTGTCCTTATATTCAGGGTGTGTTGGCTTTGTTGTTAGTGAATATGCTATATTTCCCTGTATGTGCA
3070 3090 3110 3130 3150
TCTTTGACTGTTATTTTTCCTGGCGATCTTTTATTCACAAAGAACCTAGAGCCCTGGTTTATTTACTTTTCTTCCATAGAAAACTATT
3170 3190 3210 3230
TGTCTTCCAGGATTAGATATGTCATATTTCTTATATGCAATGATCAATATCATGATGAATATATTTACTGTGTATATTAATAACTG
3250
GCATTAAGTGGAGGGA

Figure 2 (continued)

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[illegible]

Figure 3

Em1_Human Em1_Mouse Em1_Fla	401 AVVSECAQDM GVASFCLVNM TWTFPEGVHS	NITSVLDVVC ATFTLEHNTC QTLSPFPDKV	EMCTVVSLE CMKAPVSLU NKSCHTGSLE	NIRSTVPEVL SAASTVRLVL THLGLVLSSE	450 KUISMWEKFI LDATITWII KLVDELMEZA
Cd97_Human	451 KEEYSSIAIV KEETSTLGLI KEEIVAKGAK	ECUSVUSMIL LLEIVETAIL LLAKVHNHIL	ASFWLPSAN AALLTPSGH NEMSDIKKID	VLPAAVRAIYL ASQMDOTIYL EHZLLDVIYLG	500 UI...ISAVI DE...GSLVI TK...ACSTAI
Cd97_Human	501 MKESRRHYVT MKECRRHES TK... LMVURHNN	LVVAKGDKM LAAAGGDKM LAAAGGDKM	RLQVSYIDV HVGCFPIIKH KVGCTSNPEU	SERETETDVA SVSTTAPDVA HNSHETAVVA	550 VVSFVDMER VVSFAHMER VVSFAHMER
Em1_Human Em1_Mouse Em1_Fla Cd97_Human	551 VLMERFTH VLMERFTH VLMERFTH VLMERFTH	...DIQAP ...DQO ...NUR ...NUR	LYTSRILKSN ...SRKRLRL ...OTDEVT ...VSSIRGQDL	SRVYHUI SRVYHUI SRVYHUI SRVYHUI	600 NTOKKADNFS VTEGELVPLS JASLVKPVLS LSNHRITKLM
Em1_Human Em1_Mouse Em1_Fla Cd97_Human	601 VLMERFTH VLMERFTH VLMERFTH VLMERFTH	...DIQAP ...DQO ...NUR ...NUR	LYTSRILKSN ...SRKRLRL ...OTDEVT ...VSSIRGQDL	SRVYHUI SRVYHUI SRVYHUI SRVYHUI	650 NTOKKADNFS VTEGELVPLS JASLVKPVLS LSNHRITKLM
Em1_Human Em1_Mouse Em1_Fla Cd97_Human	651 VLMERFTH VLMERFTH VLMERFTH VLMERFTH	...DIQAP ...DQO ...NUR ...NUR	LYTSRILKSN ...SRKRLRL ...OTDEVT ...VSSIRGQDL	SRVYHUI SRVYHUI SRVYHUI SRVYHUI	700 NTOKKADNFS VTEGELVPLS JASLVKPVLS LSNHRITKLM
Em1_Human Em1_Mouse Em1_Fla Cd97_Human	701 VLMERFTH VLMERFTH VLMERFTH VLMERFTH	...DIQAP ...DQO ...NUR ...NUR	LYTSRILKSN ...SRKRLRL ...OTDEVT ...VSSIRGQDL	SRVYHUI SRVYHUI SRVYHUI SRVYHUI	750 NTOKKADNFS VTEGELVPLS JASLVKPVLS LSNHRITKLM

Figure 3 (continued)

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Figure 3 (continued)

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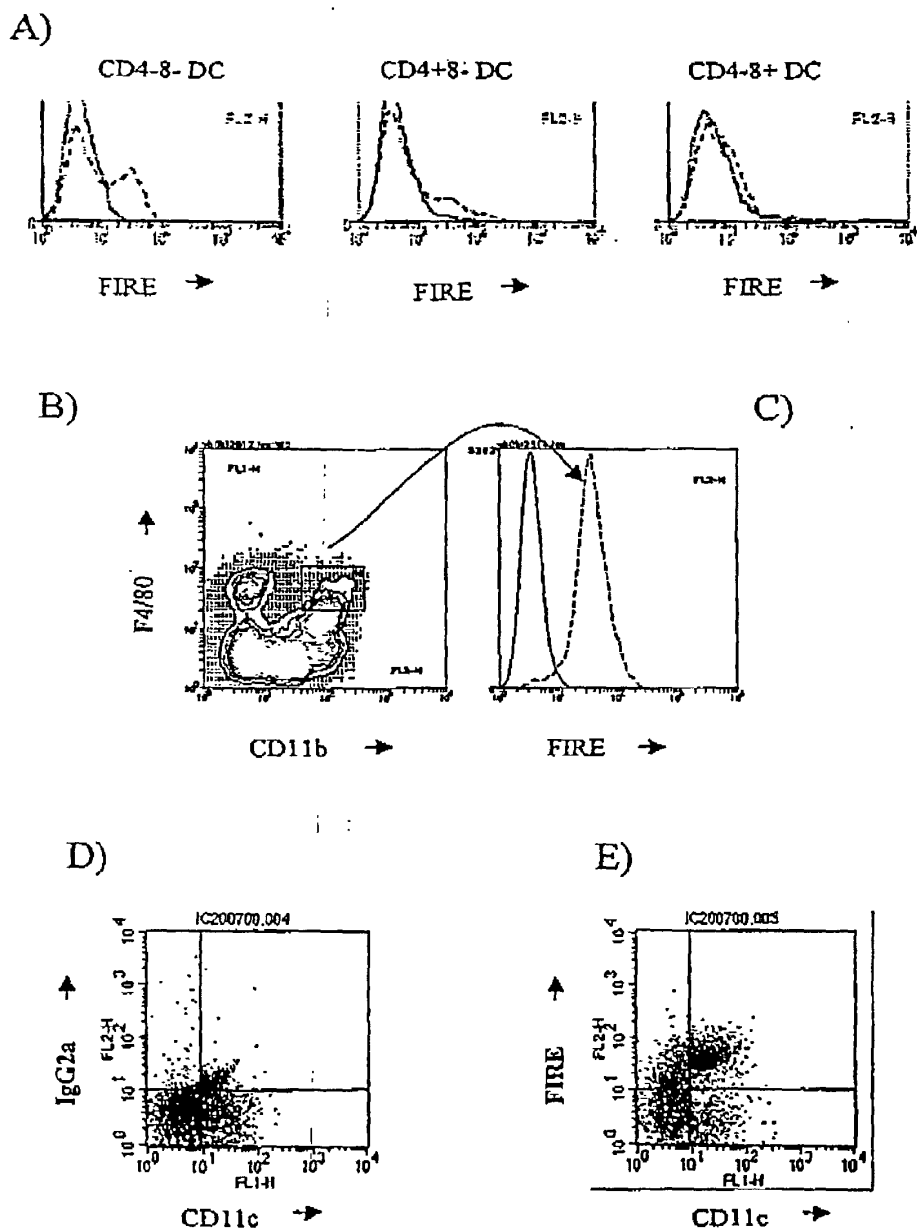


Figure 4

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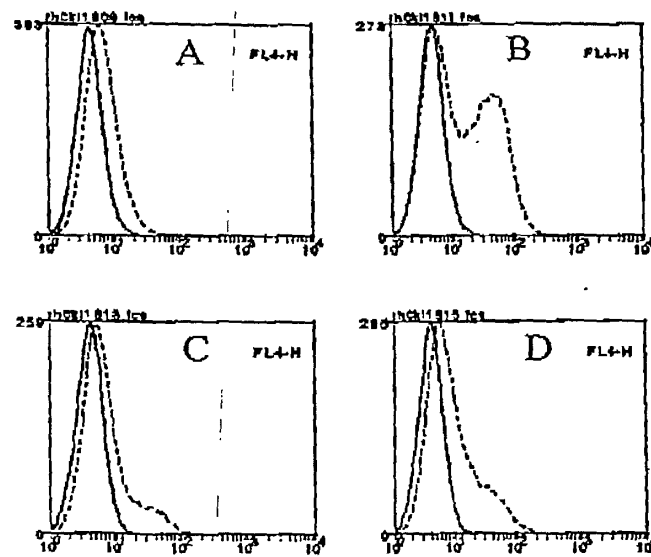


Figure 5

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Figure 6

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1621	F T I I N T L Q G V L L F V V H C L L N R O V R M E Y K K W	1710
	TTCCACATCAACACCTTCAGGAGATGTGCTCTTTGTGTACACTGTCTCTTANTGCCAGGTTGCAANTGGATATATAAAGTGG	
	F S G M R K G V E T E S T E M S R S T T Q T K T E E V G K S	1800
1711	TTTAGTGGAGTCCGGAAAGGGGTAGAAACTGAAAGCACTGAGATGCTCGCTCTACTACCCAAACCAAAACGGACAGCTGGGAGATCC	
	S E I F H K G G T A S S A E S T T K Q P Q P Q V H L V S A A	1890
1801	TCRGAANAATCTTTCAAAAGGAGGCACTGCATCATCATCTGCAGAGGTCAACCCAGACGGCCAGCCACAGGTTCTCTCTCTCTGCTGCT	
	W L K M N *	1980
1891	TGGCTAAAGATGATGACTGCTGGCAAGTGGCATGACCCGGGAAGTTACGGCTCTCTTCCGTTTGTCTACAGCGCCCTGTGCTCA	2070
1981	CACATAGATTGGACAATGCCACATATTTCTAGCTTCTCTGTGAAGAAGCTPAGGTCNTTCACTATTTTGGCTTTTATGTGTACATAGAA	2160
2071	GAACAAGACATTTGGAGAAATCTTTAGATCCAGAGTGTGTGGCAGTGGCAATGAGGTCTGGAGAGATGGATTTTAAAGATGGC	2250
2161	GGCGGGAAGTGGATTTTCTTTGTGACGCTPACTGCCACCTGGCCAGAACTTCACTAACTGGCATCTGGGATTCAGCTCATAGTTCC	2340
2251	CTTTCTGGCTCTCTGCTGATTTTATGCTTCCCAAAGATTTTACATPACACTCCACATTCACATAATTCACAAATTTTCATATGAGATCA	2430
2341	GTATTAAGAGAGGTGTGCATTTTCCAAATACAAATATGCATATATCAGTGTGTGAGAGGATGTGGAGAAATPAGGAACACITTTTACACATGT	2520
2431	TGCTGGGACTCTAACTAGTTTCAACCATCGTGGAAATGATGTGGCATTTCTCAGGGATCTAGAACTPAGAAATACCATTTTGCACACAGCT	2610
2521	ATGCCATTACTGGGTATATACCCAAAGGATTAATATGCTGCTATAAGACACATGCAACGATATGTTTATGTGGCATTTATTCACA	2700
2611	ATAGCAAAAGACTTGGAAACCAACCCAAAGTATCCAAATGNTAGACTGGATTAAGAAATGTGGCACATATACACCACGGAACTATGATGCA	2790
2701	GCACATAAATGATGATGAGTTTCATGTCTTTGTAGGGACATGGTGAATCCGGAAATTCGCCGATCTACTACCGGGCTCCAGGAGTCTGCTCGC	
2791	CACCAATC 2798	

Figure 6 (continued)